CDX-4000RV

SERVICE MANUAL

AEP Model
UK Model

Ver 1.2 2001. 05

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-3900R/4000R/4000RX
CD Drive Mechanism Type	MG-383Z-121//Q
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

General

Outputs	Audio outputs Power aerial relay control lead Power amplifier control lead Telephone ATT control lead
Tone controls	Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 183 mm (w/h/d)
Mounting dimension	Approx. 182 × 53 × 162 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

9-870-125-12
2001E0400-1
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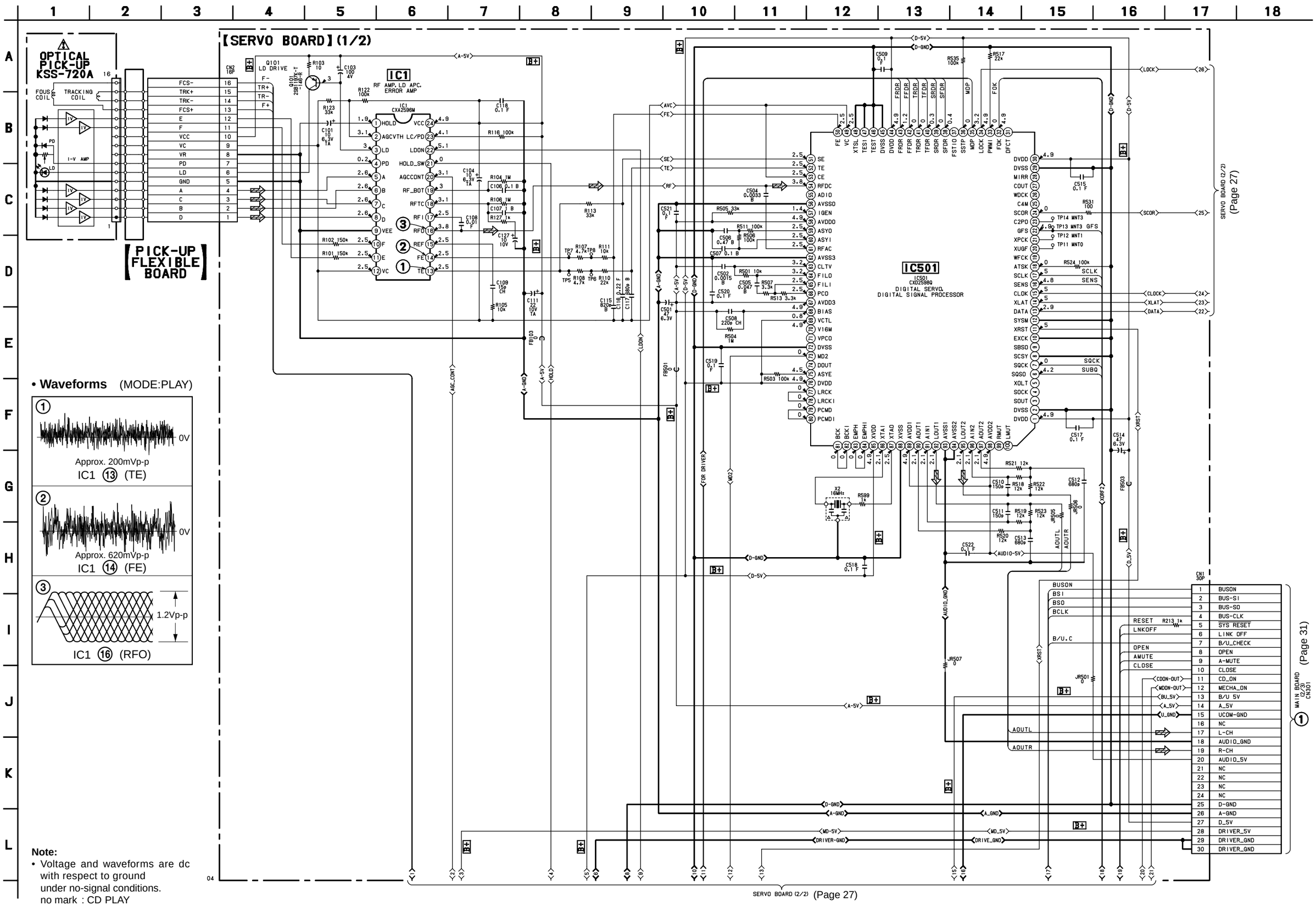
Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

SONY®

3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 37 for IC Block Diagrams.



• Waveforms (MODE:PLAY)

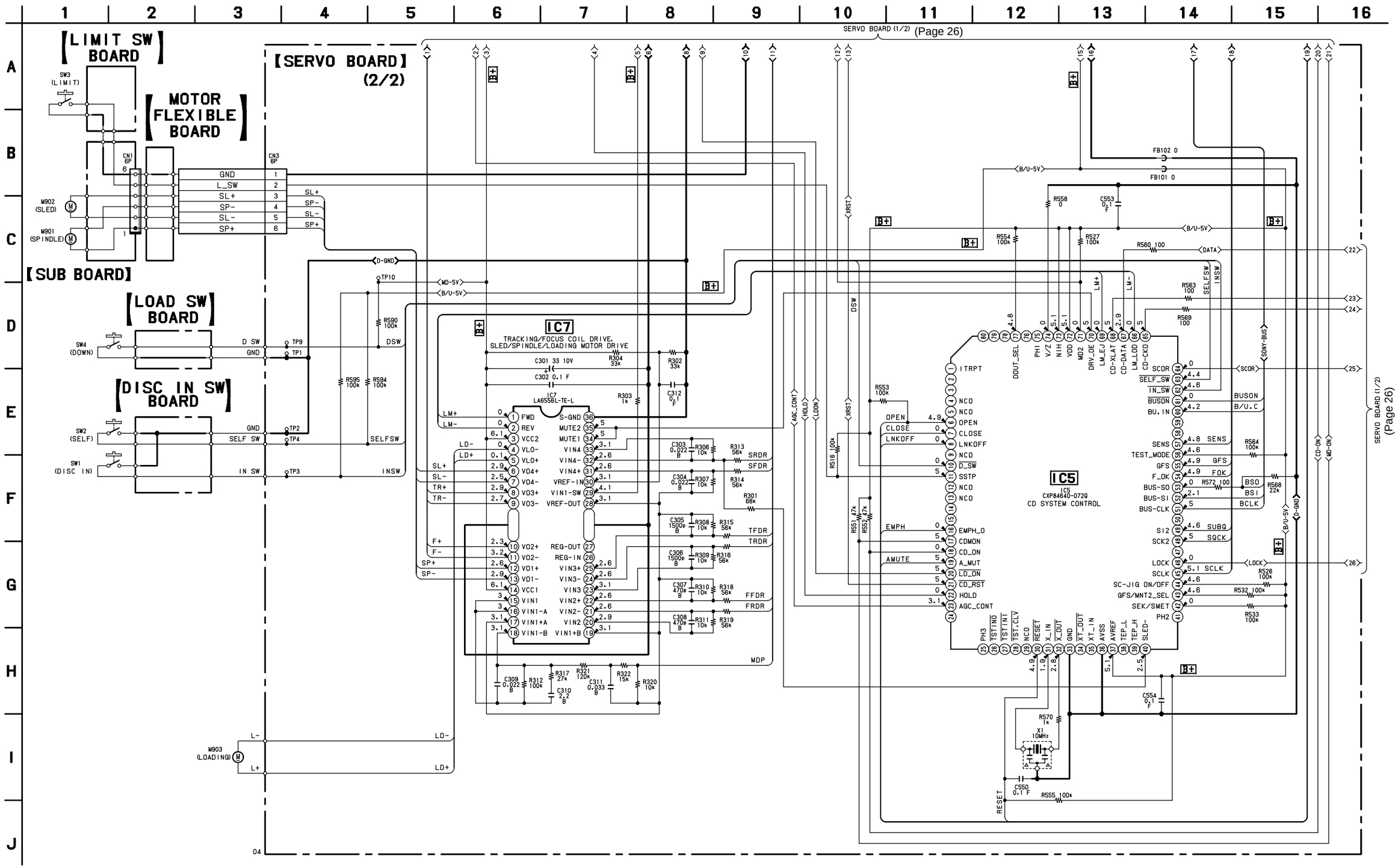
① 0V
Approx. 200mVp-p
IC1 ⑬ (TE)

② 0V
Approx. 620mVp-p
IC1 ⑭ (FE)

③ 1.2Vp-p
IC1 ⑯ (RFO)

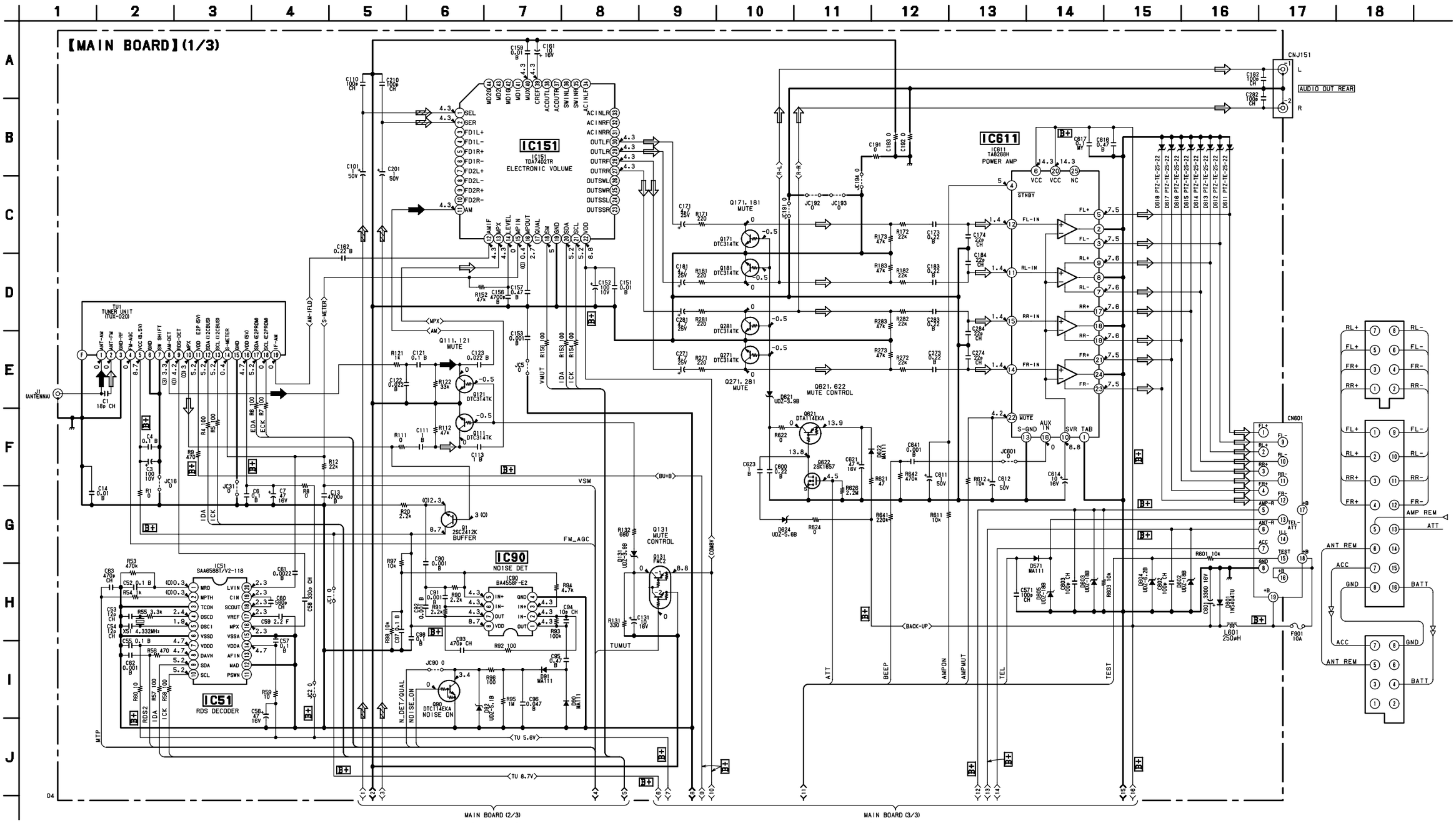
Note:
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

3-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 38 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

3-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 39 for IC Block Diagrams.

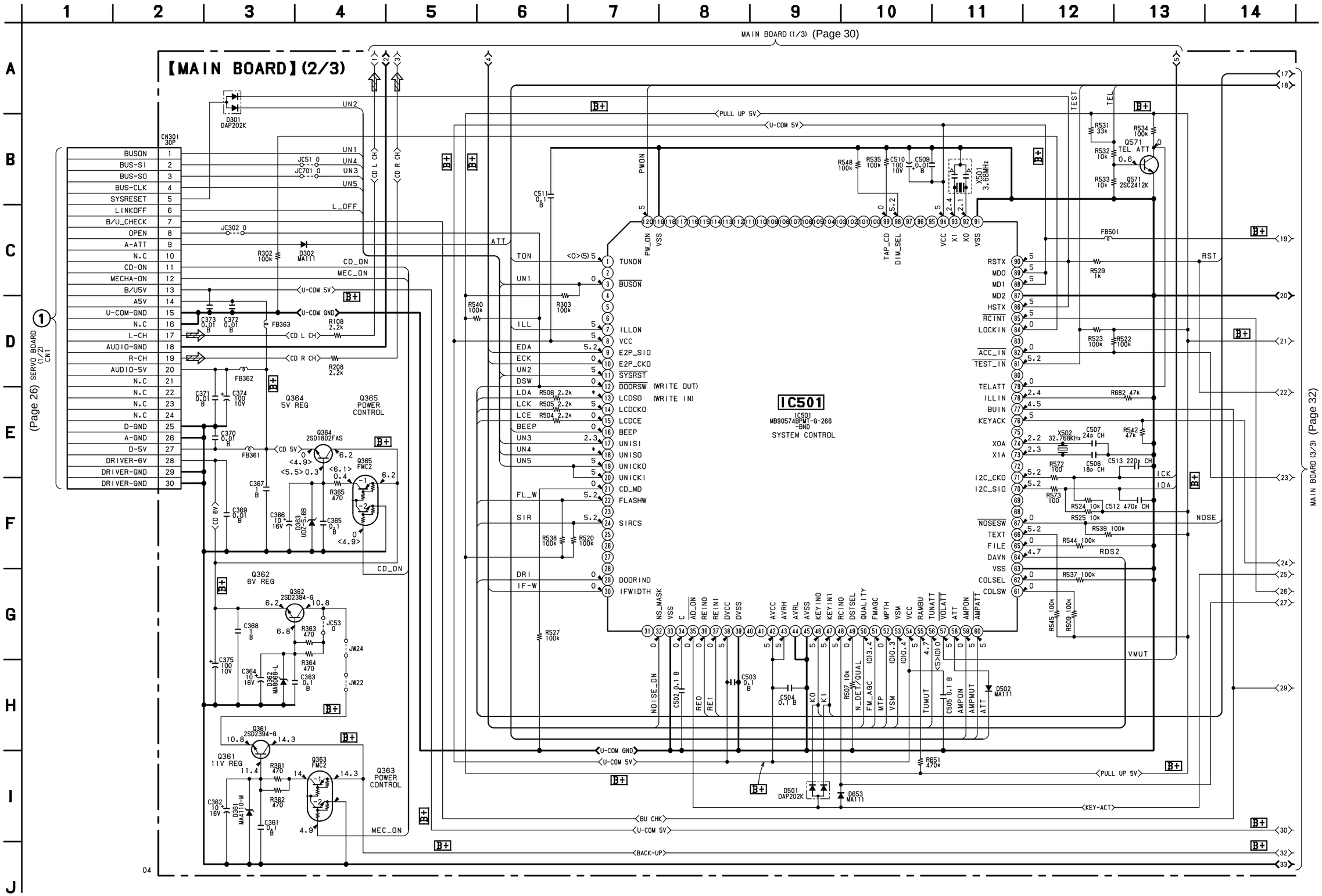


(Page 31) (Page 32)

Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW

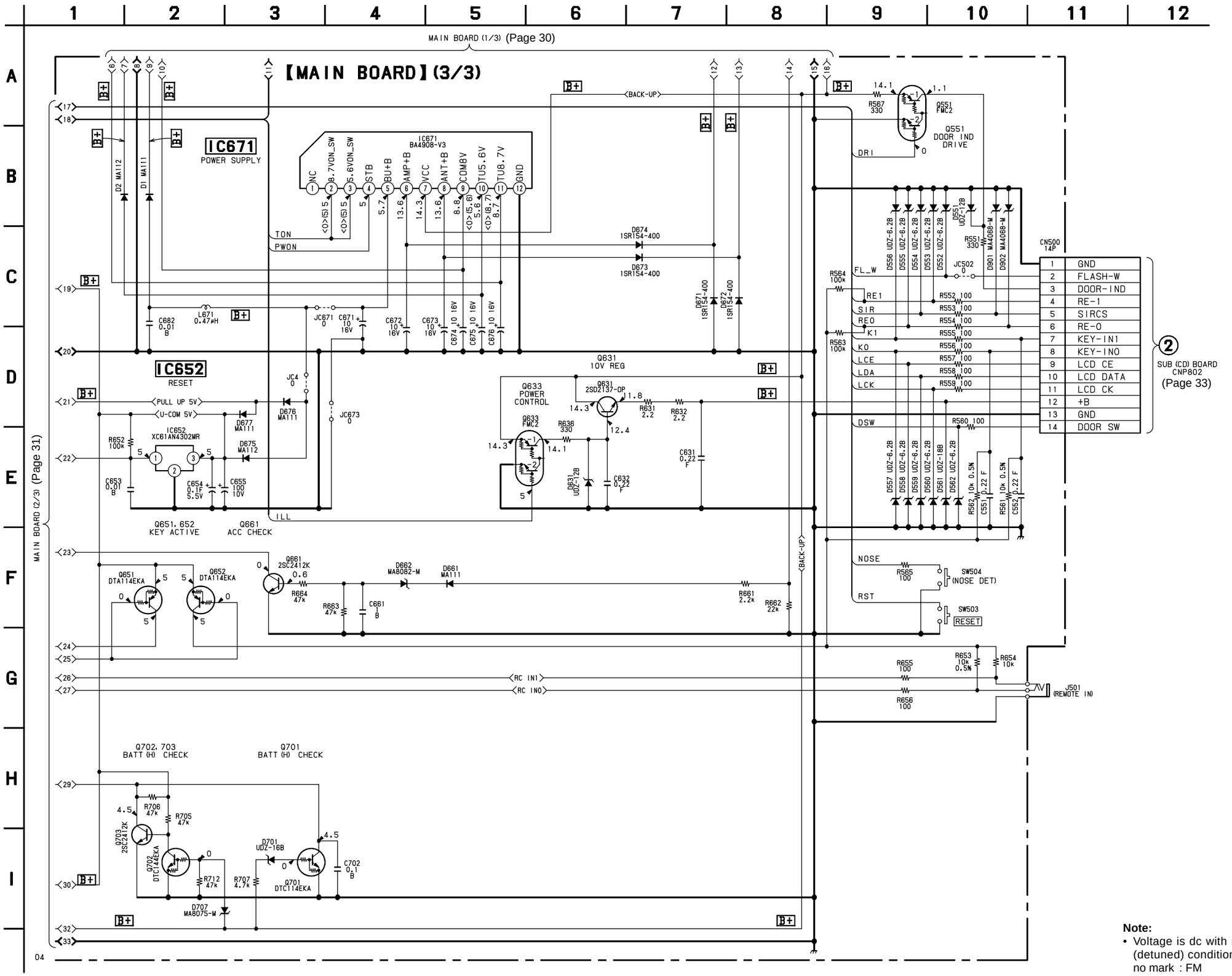
3-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



Note:

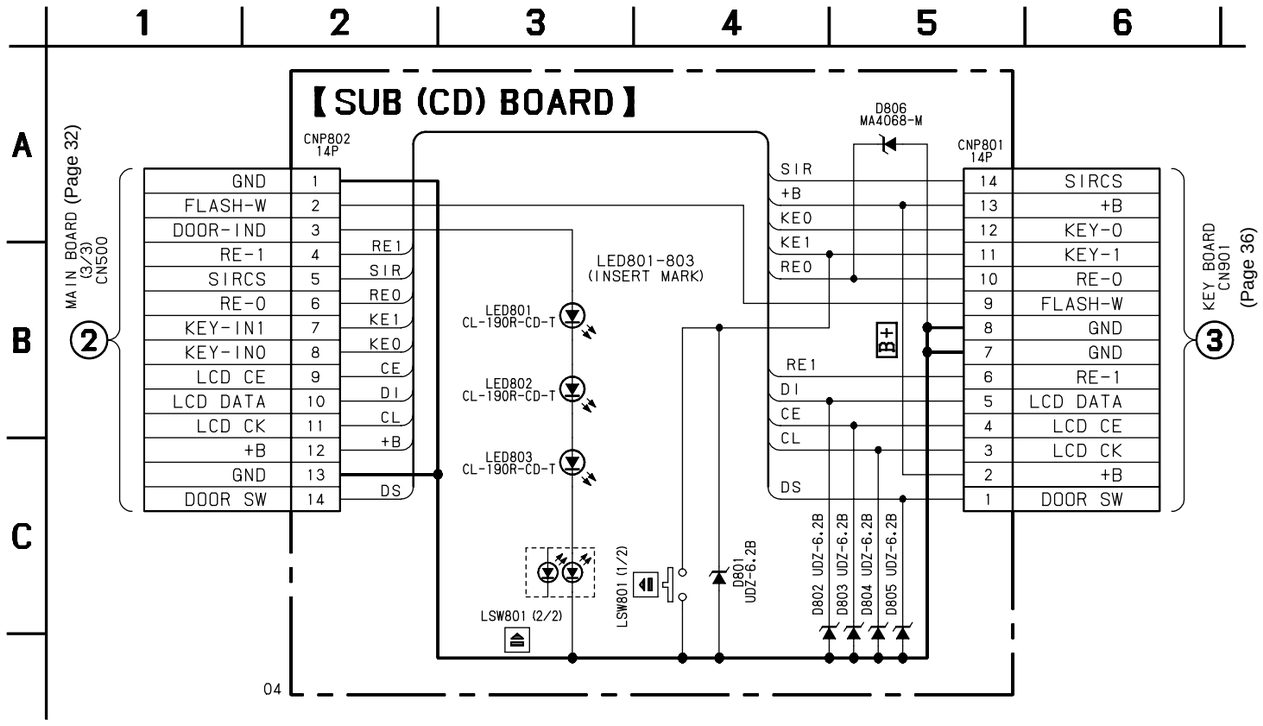
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : CD PLAY

3-12. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 39 for IC Block Diagrams.

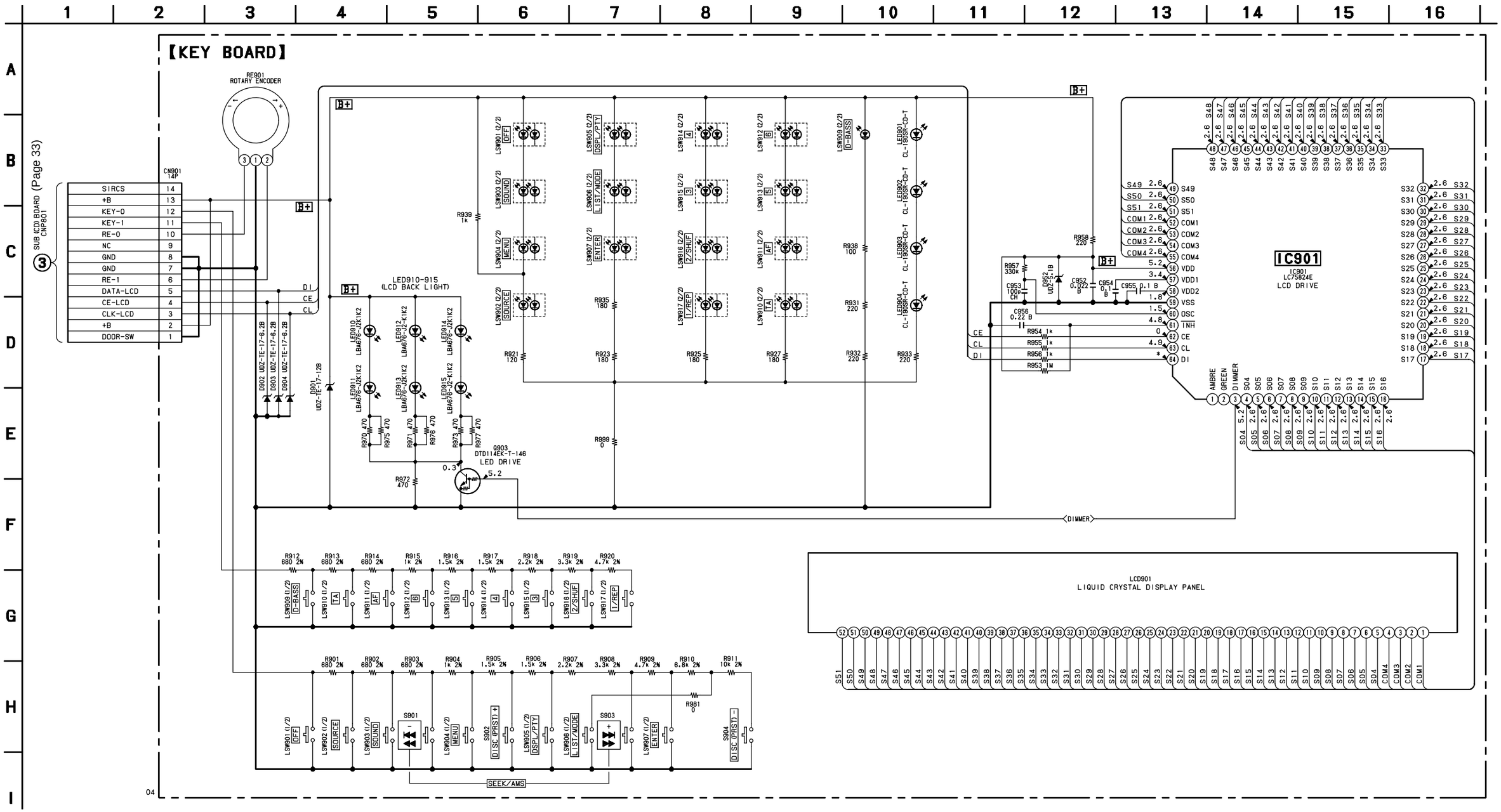


Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : CD PLAY

3-13. SCHEMATIC DIAGRAM — SUB (CD) SECTION —



3-16. SCHEMATIC DIAGRAM — KEY SECTION —



Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

CDX-4000RV

SONY

AEP Model
UK Model

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SUPPLEMENT-2

File this supplement with the service manual.

Subject : Change of Main, Sub (CD) and Key Boards

(ECN-CSA01521/CSA02901)

TABLE OF CONTENTS

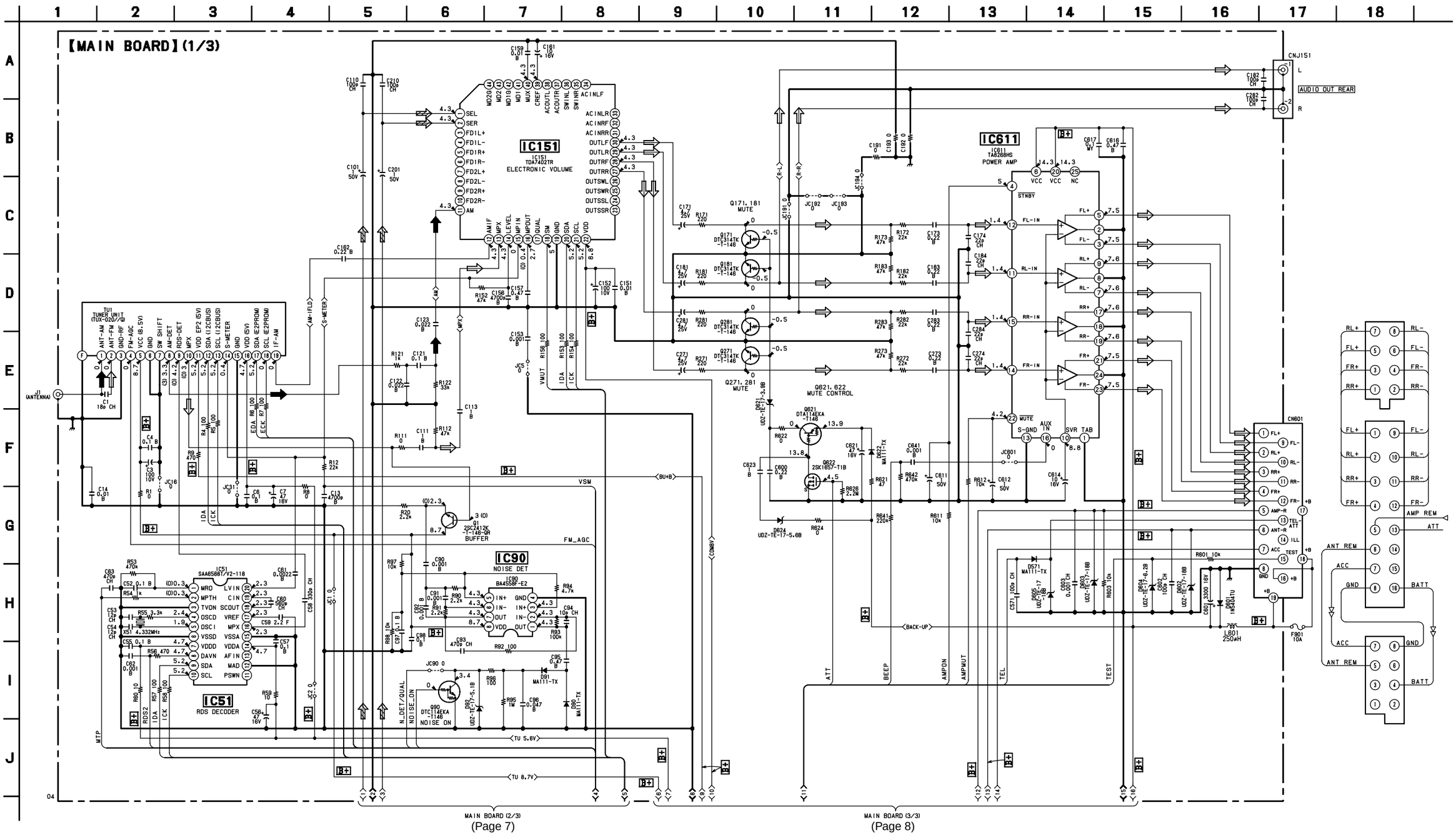
1. CHANGE OF MAIN, SUB (CD) AND KEY BOARDS

1-1. Discrimination 2

1-2. Diagrams
• Printed Wiring Board –Main Section– 4
• Schematic Diagram –Main Section (1/3)– 6
• Schematic Diagram –Main Section (2/3)– 7
• Schematic Diagram –Main Section (3/3)– 8
• Schematic Diagram –Sub (CD) Section– 9
• Printed Wiring Board –Sub (CD) Section– 10
• Printed Wiring Board –Key Section– 11
• Schematic Diagram –Key Section– 12

1-3. ELECTRICAL PARTS LIST 13

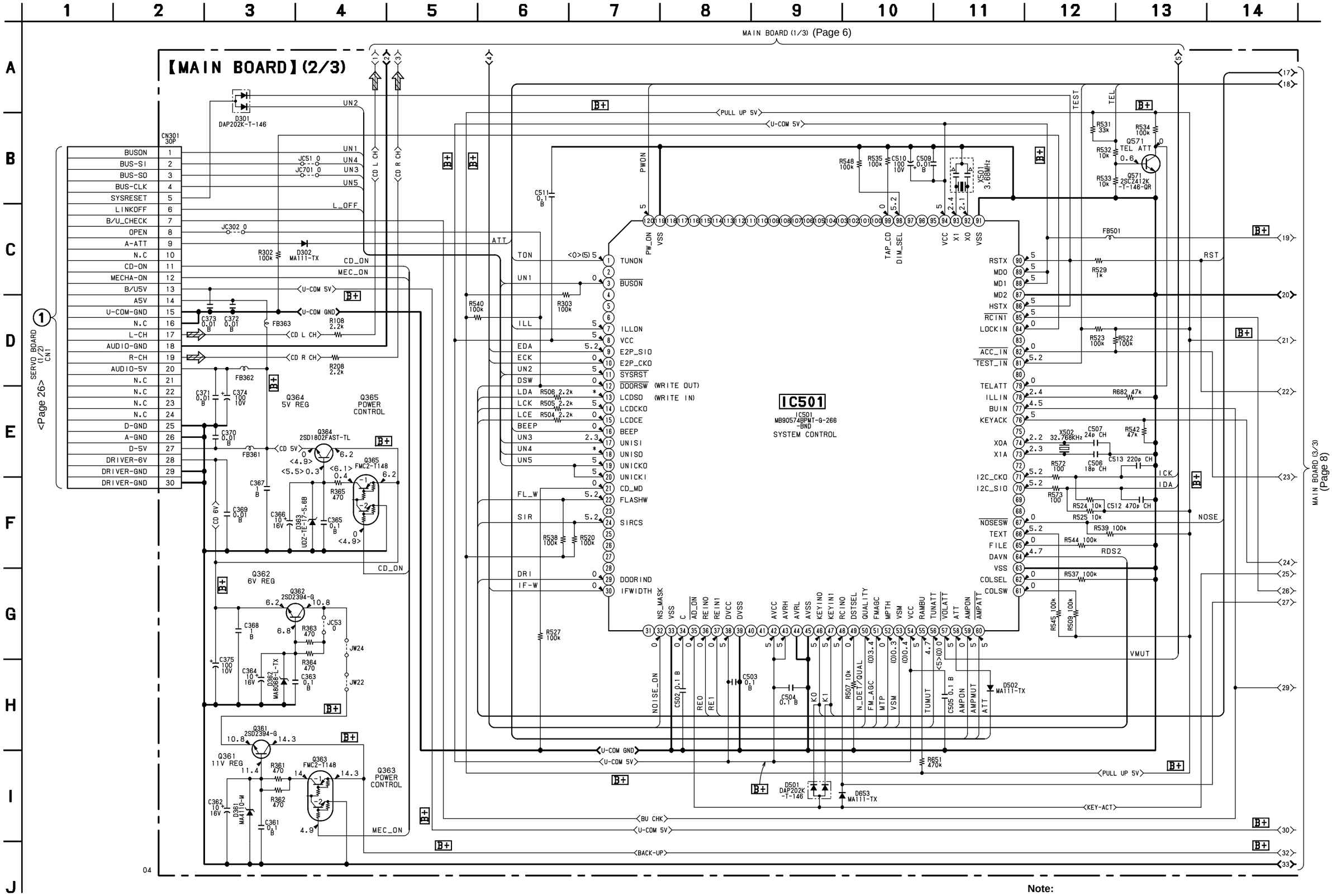
• SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 37 of Service manual for IC Block Diagrams.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW

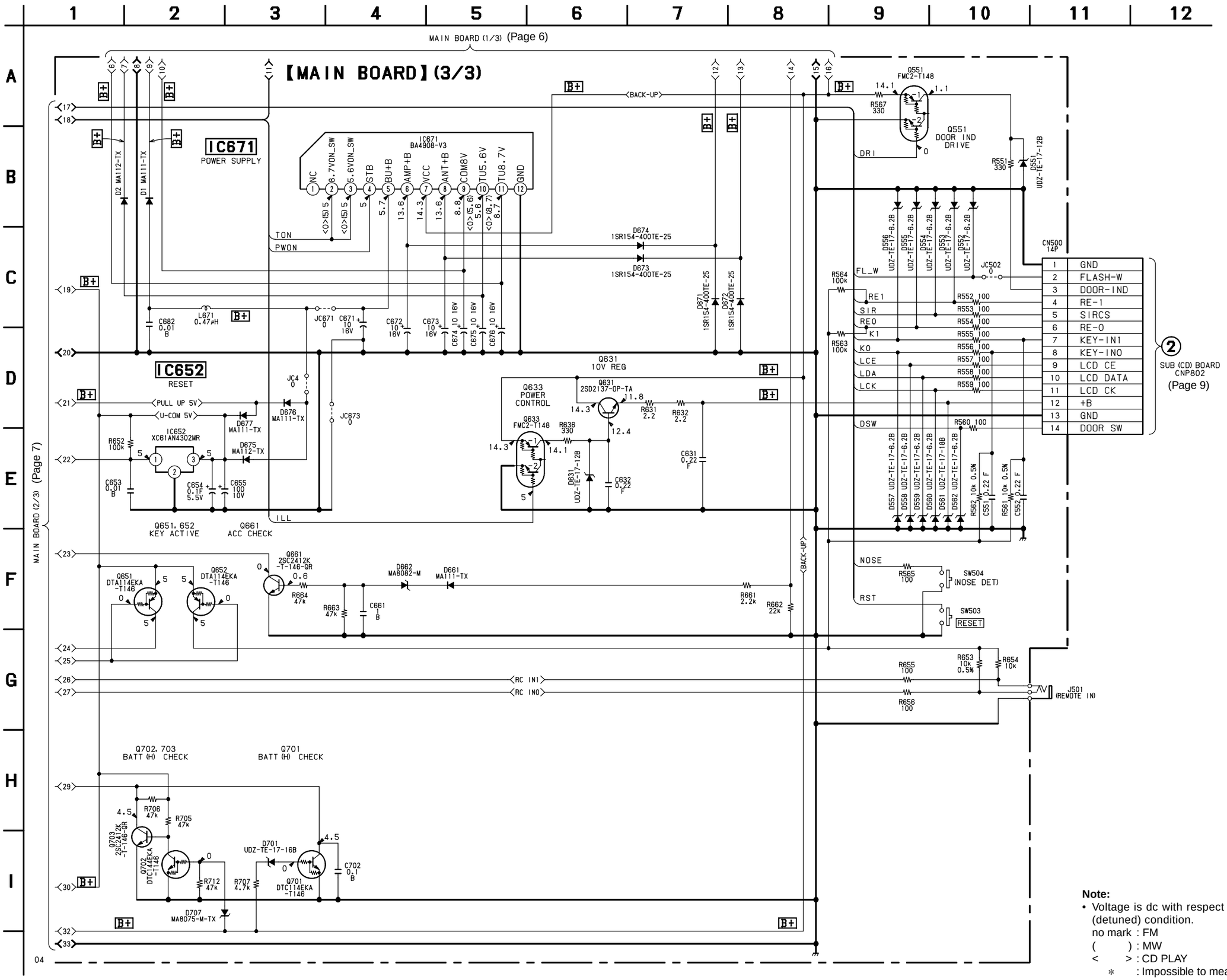
• SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : CD PLAY
  * : Impossible to measure

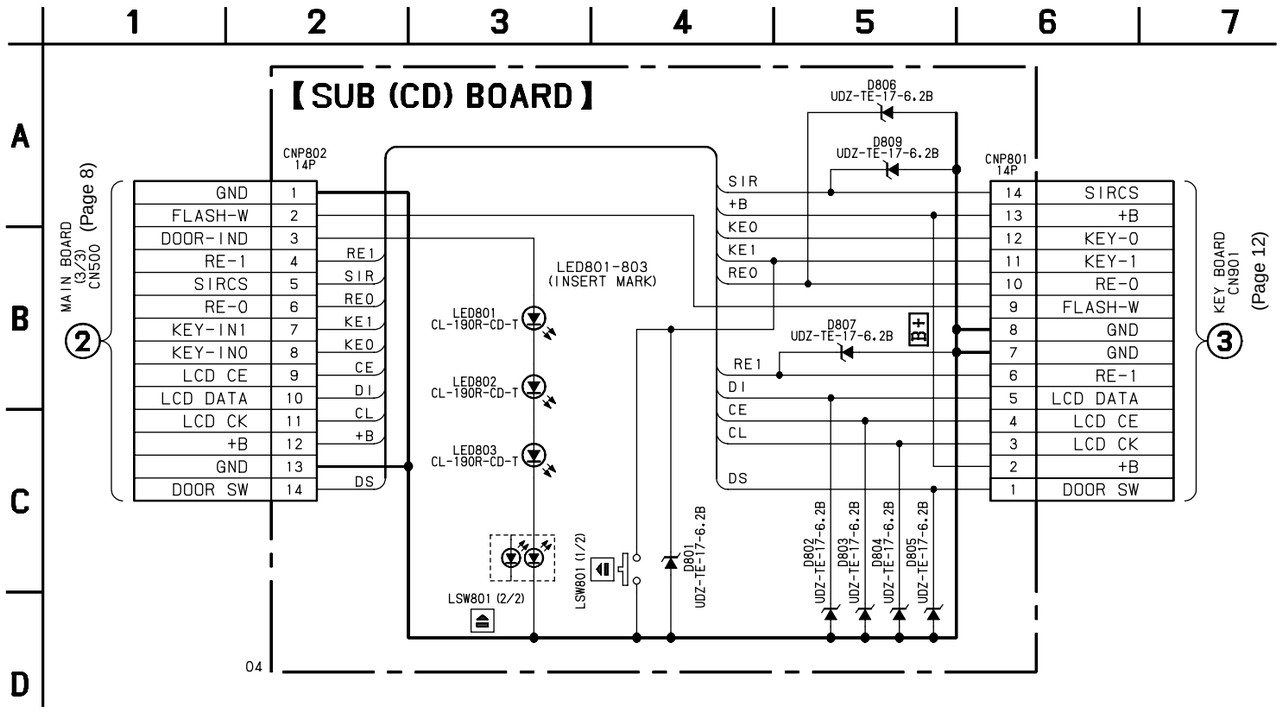
• SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 38 of Service manual for IC Block Diagrams.



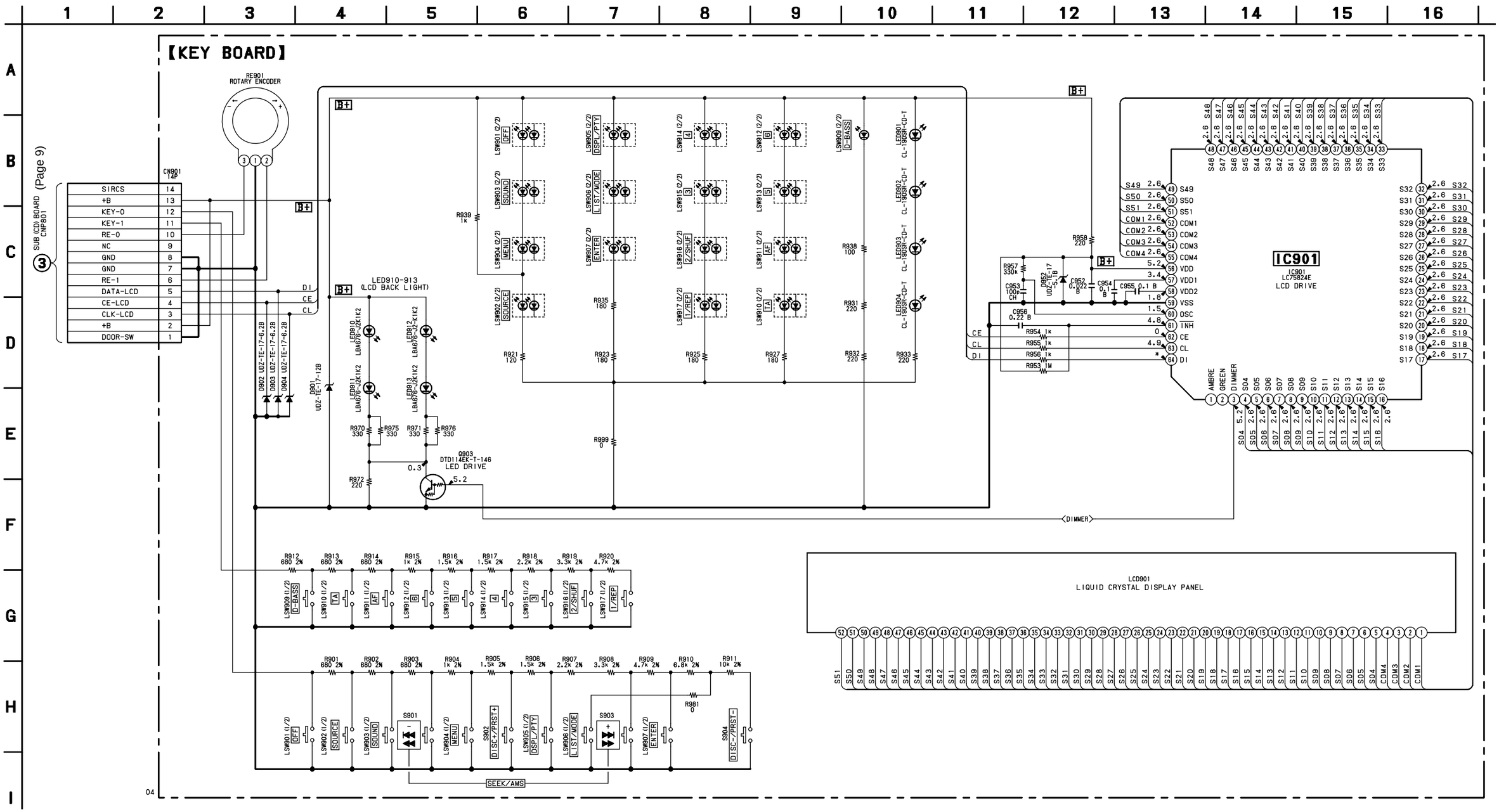
Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : CD PLAY
  ∗ : Impossible to measure

• SCHEMATIC DIAGRAM — SUB (CD) SECTION —



• SCHEMATIC DIAGRAM — KEY SECTION —



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ∗ : Impossible to measure